

## MD iMap Technical Committee Meeting Minutes

Place: Department of the Environment (MDE): Terra Room (Baltimore, MD)  
Date: 5/7/13  
Time: 1:00PM – 3:00 PM  
Attendees: Rowland Agbede (MDA), Kevin Coyne (DNR), Bill Fearington (DHR), Julia Fischer (DoIT), Dave Guident (MDE), Jason Keppler (DoIT), Barney Krucoff (GIO), Lisa Lowe (DoIT), Frank Siano (MDE) and Matt Sokol (DoIT),  
Phone Attendees: Kristen Ahearn (StateStat), Ashley Buzzeo (CGIS), Mary Creamer (ESRGC), Mark Helmken (CGIS), Doug Reedy (Frederick County Government), Erin Silva (ESRGC) and Brad Wolters (DHCD)

### AGENDA:

- Introductions 1:00 – 1:10
- MD ELA Statistics Update 1:10 – 1:20
- Data & Resources Subcommittee Updates 1:20 – 1:50
  - Addressing Initiative
  - Cascading Geocoder
  - Floodplain Discussion
  - LiDAR Hosting
- Application Subcommittee Updates 1:50 – 2:10
  - MD iMap Application Template Update
- Outreach Subcommittee Updates 2:10 – 2:30
  - Portal Changes
- IP Address Change for Central License Manager 2:30 – 2:40
- Additional Business 2:40 – 3:00

### NEW ACTION ITEMS:

Description:	Date Assigned:	Follow Up By:
• Add geocoder change information, from Esri, onto MD iMap Portal	Submitted: 5/7/13	Julia Fischer

**ON-GOING ACTION ITEMS:**

<b>Description:</b>	<b>Date Assigned:</b>	<b>Follow Up By:</b>
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**APPLICATION SUBCOMMITTEE ACTION ITEMS:**

<b>Description:</b>	<b>Date Assigned:</b>	<b>Follow Up By:</b>
USDOT Cloud Utilization Survey <ul style="list-style-type: none"> <li>• <i>Update on page 11</i></li> <li>• USDOT has been briefed</li> <li>• Mike Sheffer and Kaushik Dutta to attend a USDOT workshop this summer and report back what they learn</li> <li>• Send acceptance to USDOT, we are on the second tier list of user's discussion. No further communication</li> <li>• Phone conversation with them to start</li> </ul>	Updated: <b>5/7/13</b> 4/2/13 1/15/13  Submitted: 11/20/12	Kaushik Dutta & Barney Krucoff
Geocortex <ul style="list-style-type: none"> <li>• <i>Update on page 11</i></li> <li>• Request DoIT contractors explore and report back to the group concerning the raw code and opportunities for modification</li> </ul>	Updated: <b>5/7/13</b> Submitted: 1/15/13	DoIT GIO Office
How to consume Socrata services in MD iMap <ul style="list-style-type: none"> <li>• <i>Update on page 11</i></li> <li>• Python script being coded and tested on some transportation and MDA data which has been uploaded to Socrata, more details to follow</li> <li>• Test the potential for automated updates using available .xml feeds or other resources out of Socrata and report back to the group</li> </ul>	Updated: <b>5/7/13</b> 2/5/13  Submitted: 1/15/13	Kristen Ahearn, Kaushik Dutta & Jason Keppler
Google Map Engine <ul style="list-style-type: none"> <li>• <i>Update on page 11</i></li> <li>• Have decided to change the plan and go with Arc2Earth tool instead</li> <li>• Negotiate with Google through the existing Google contract with DoIT</li> </ul>	Updated: <b>5/7/13</b> 4/2/13  Submitted: 9/4/12	GIO
SwGi/Version 10.1 Migration <ul style="list-style-type: none"> <li>• MD iMap infrastructure being kept at Esri Version 10.0 at present</li> <li>• DoIT providing a server for development at Esri Version 10.1 at present</li> <li>• Meeting scheduled w/Amazon for Wed. 9/5/12</li> </ul>	Updated: 11/20/12 9/4/12 7/17/12 3/23/12	GIO

<ul style="list-style-type: none"> <li>• 10.1 migration anticipated by January 2013 by CGIS</li> <li>• 1 meeting at CGIS</li> <li>• Not yet created design</li> <li>• Invite Esri to participate in a design session</li> </ul>	Submitted: 3/6/12	
Application Submission Procedures <ul style="list-style-type: none"> <li>• <i>Update on page 12</i></li> <li>• Update detailed procedures for application creation and update</li> <li>• Resend Application Submission Procedures draft to Technical Committee (Co-chairs)</li> </ul>	Updated: <i>5/7/13</i>  Submitted: 6/21/11	Technical Committee

#### DATA & RESOURCES SUBCOMMITTEE ACTION ITEMS:

Description:	Date Assigned:	Follow Up By:
REST Endpoint Service Descriptions <ul style="list-style-type: none"> <li>• Any changes that need to be made to these descriptions or legends should be submitted to Ashley Buzzeo</li> </ul>	Submitted: 12/20/11	MD iMap Service Data Owners
WFS-Enabled OSPREY Services <ul style="list-style-type: none"> <li>• <i>Update on page 12</i></li> <li>• <del>Instructions and list of available WFS-enabled services to be added to Portal early September</del></li> <li>• Ownership in question</li> <li>• Follow up with owners of OSPREY data to determine if layers can be WFS-enabled</li> </ul>	Updated: <i>5/7/13</i> 9/4/12 3/23/12  Submitted: 12/6/11	Kenny Miller
GIS/Archives Appraisal Questions <ul style="list-style-type: none"> <li>• Distribute survey to as many municipal, county and state agencies, as possible, for potential participation</li> </ul>	Submitted: 7/5/11	Technical Committee
Feedback/Requests concerning MD iMap <ul style="list-style-type: none"> <li>• <i>Updates on page 12</i></li> <li>• Statewide tax map service being developed by MDP – will be made available on MD iMap in future</li> <li>• PFA map service now includes a field “State Eligible” w/ Yes or No</li> <li>• Look to obtain most recent statewide DEM from Salisbury and discuss effort/timeline for generating hillshade and getting posted</li> <li>• Still updating</li> <li>• Add Plat # to parcel</li> <li>• Maybe add address</li> <li>• Add PFA in/out: resistance to this update</li> <li>• Check for hillshade, which can be added as map service, @ MDP</li> <li>• Add Hillshade Service: Inquire at DNR if they have a hillshade available – to check</li> </ul>	Updated: <i>5/7/13</i> 9/4/12 3/23/12 10/4/11  Submitted: 6/7/11	Jim Cannistra

<ul style="list-style-type: none"> <li>• Add Map/Parcel ID Look-Up: Follow up with requestor (Jason Zhao – MDE) to clarify request</li> </ul>		
<p>Cascading Geocoder</p> <ul style="list-style-type: none"> <li>• <b>Two composite locators now available on the production server</b></li> <li>• Anticipate being live within a week or two</li> <li>• Testing going well and anticipate deploying in the near future</li> <li>• The 11 address locators that the composite locator will use are created</li> <li>• Geocoders have been defined, data being collected, geocoders to be created and tested in the upcoming weeks</li> <li>• Research concerning development of composite geocoder underway</li> <li>• Composite geocoder on task list for CGIS FY2013</li> <li>• Ashley Buzzeo will work with Brad Wolters to determine if this composite geocoder will meet these additional search criteria needs</li> </ul>	<p>Updated: 5/7/13 4/2/13 3/5/13 2/5/13 1/15/13 12/4/12 9/4/12</p> <p>Submitted: 1/18/11</p>	CGIS
<p>Web Mercator Data Service Projection</p> <ul style="list-style-type: none"> <li>• DoIT recreating MD iMap map services in 10.1 Web Mercator projection</li> <li>• Need to move projections to Web Mercator</li> <li>• Per MES, EMMA replacement will use Web Mercator projection</li> <li>• Assess costs in labor and storage for creation of MD iMap data services (except imagery) in Web Mercator projection – Will determine with DNR &amp; CSSC (lots of variables: migration to 10, etc.)</li> </ul>	<p>Updated: 11/20/12 3/6/12 10/4/11 4/5/11</p> <p>Submitted: 1/4/11</p>	GIO Office
<p>Metadata Services</p> <ul style="list-style-type: none"> <li>• Forward electronic list to group</li> <li>• Updated list to be provided by Friday, 1/7/2011</li> <li>• Updated list to be provided at 1/4/2011 meeting</li> <li>• Remaining “offenders” actively being pursued</li> <li>• Resend email to “offenders” to complete metadata</li> <li>• Email resent and follow-up by Kenny Miller to occur</li> <li>• MDP has provided metadata for all their services on MD iMap</li> <li>• Follow-up concerning how to obtain the missing metadata for services currently being hosted on MD iMap</li> <li>• Email sent to Kenny</li> <li>• Agency leads from Tech. Comm. to make progress <ul style="list-style-type: none"> <li>○ Direct contact of data owners</li> </ul> </li> <li>• A listing of services for which metadata is needed was provided. It was discussed that some metadata may not be available from the data producers. This is especially true for parcel data. Metadata at the service level will be written by MDP for parcel data to go along with the MD iMap refresh process</li> </ul>	<p>Updated: 1/18/11 1/4/11 12/21/10 10/5/10 8/3/10 7/12/10 6/22/10 5/18/10</p> <p>Submitted: 4/20/10</p>	Data & Resources Subcommittee Co-chairs

#### OUTREACH SUBCOMMITTEE ACTION ITEMS:

<b>Description:</b>	<b>Date Assigned:</b>	<b>Follow Up By:</b>
Twitter/Communication Plan <ul style="list-style-type: none"> <li>List of every CIO for inclusion on email alerts</li> </ul>	Submitted: 11/15/11	GIO
<ul style="list-style-type: none"> <li>Recruit participants</li> <li>Obtain feedback concerning how to improve upon current outreach strategies</li> <li>Email potential new members directly</li> </ul>	Updated: 5/18/10 4/20/10  Submitted: 3/16/10	Outreach Subcommitt ee
<ul style="list-style-type: none"> <li>Proactive Marketing of MD iMap</li> </ul>	Submitted: 9/21/10	Outreach Subcommitt ee

#### **COMPLETED ACTION ITEMS:**

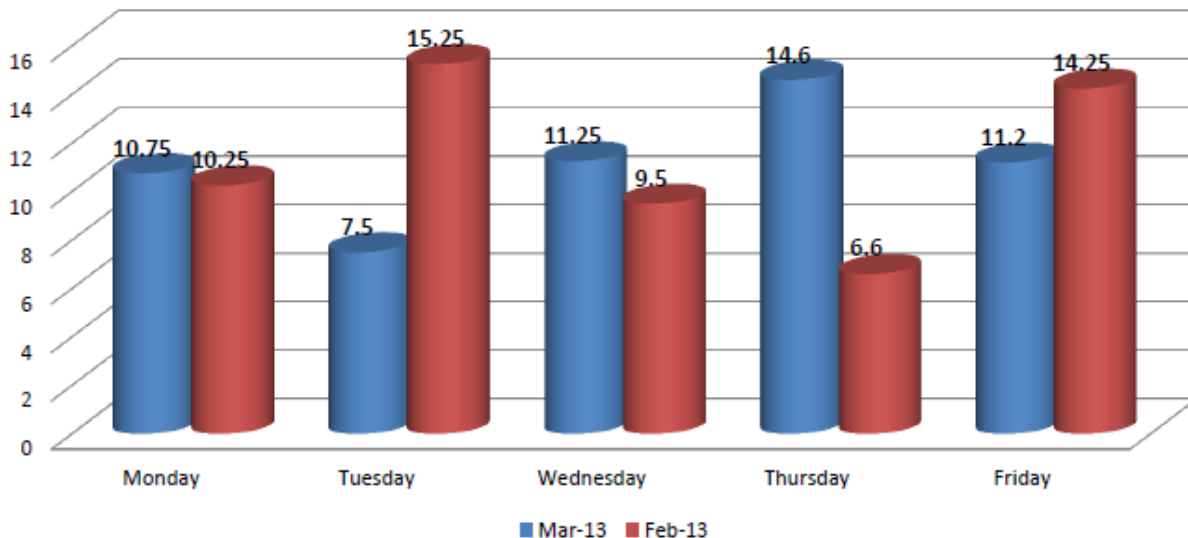
<b>Description:</b>	<b>Date Assigned:</b>	<b>Follow Up By:</b>
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#### **Introductions**

*Round-the-room*

#### **MD ELA Statistics Update**

- Total Users in April: 319
- Percent Change from March 2013: +10%
- Total Number of System Users: 549
  - DNR (136), MDP (39), MDA (29), MDOT (19), Other Agencies (53) and Unidentified (273)
- Number of ArcView license users has risen since the request to add more users at the ArcView Desktop level, rather than a higher software level
- Request for additional statistics from the OpenLM tracking system includes concurrent user maximum number by day
- MDP has taken numbers for their users and conducted more detailed statistical analysis
  - Statistics include “Average Users comparison for February & March 2013” by day of the week



- Agencies interested in conducting more detailed statistical analysis can contact Julia Fischer for data export
- D.C. Government's ELA is up this fall and has no option years
  - They estimate they are overpaying and negotiations are on-going
- Interested to see how their costs will change and how new products which will be added to the ELA which will adjust their costs
- Maryland could take maximum number of concurrent users and check with GSA schedule and get prices concerning our current usage
- Follow up with D.C. Government once their negotiations are complete

## Data & Resources Subcommittee Updates

### MD iMap Updates

- Updated county lands maps service, awaiting approval to move to updates to production server
- Collapsed 9 previously unique services into a single service for use by Coastal Atlas
- Updated services for GreenPrint and the protected lands service
- Cost estimates have been presented to the GIO Office concerning the MD iMap 10.1 infrastructure solution
  - Anticipate this solution to include Amazon Cloud services
  - Meeting with Amazon, this week, for solution details
  - CGIS would procure Amazon Cloud services and administer the entire system
- Scope of work for hosting the MD iMap 10.1 infrastructure solution have been sent to Salisbury, Archives and DoIT for the opportunity to submit additional proposals
- GIO Office open to the idea of sending the scope of work to other organizations for additional proposals
  - However, not interested in a commercial RFP process
  - All options, thus far, could be administered through MOUs
- In the process of updating Data & Resources Subcommittee Charter
  - Only a few minor edits are anticipated
- Technical Committee members should anticipate receiving an email collecting information on:

- Update cycles for all datasets on MD iMap infrastructure
- Identification of data owners/custodians and request for update to contact information
- Data owners/custodians should anticipate receiving an email collecting information on:
  - Missing metadata and updates to existing metadata
- In the process of drafting a Data Sharing Policy
  - Anticipate the document to have minimal detail
  - Will include a request to make data available in public domain unless the data is considered agency-only
  - Anticipate providing categories that label data as confidential
    - Heads up that any data labeled as “confidential” will potentially flag the DoIT IT “Police”
    - They will assure that the data is being handled according to the State’s secure data policies
    - Please refer to the DoIT Secure Data policy for details  
[\(http://doit.maryland.gov/Publications/DoITSecurityPolicy.pdf\)](http://doit.maryland.gov/Publications/DoITSecurityPolicy.pdf)
- Data & Resources Subcommittee will be requested to review the Data Sharing Policy and approve/reject on behalf of the Technical Committee

#### Addressing Initiative

- 16 counties have been visited and all have agreed to submit data including, centerlines, address points, and building footprints
- Remaining counties have been scheduled and the entire State will be collected by the end of May
- Information regarding current software editions, spatial data management techniques, and server capabilities is also being collected during interviews
- Having candid discussions with locals with regards to GIO’s role in supporting local governments
  - Interviews will be synthesized into a report, upon completion
- Data will be moved into an abbreviated version of the FGDC United States Thoroughfare, Landmark, and Postal Address Data Standard in the coming weeks
- Will work with Ashley Buzzeo (CGIS) to incorporate address data into cascading geocoder services
- Requested building footprints along with addresses and have obtained them statewide

#### Cascading Geocoder

- Two composite locators, one with and one without zip codes are on the production server  
<http://mdimap.us/ArcGIS/rest/services/GeocodeServices/MD.State.MDCascadingLocatorWithZIPCodes/GeocodeServer>  
<http://mdimap.us/ArcGIS/rest/services/GeocodeServices/MD.State.MDCascadingLocatorWithoutZIPCodes/GeocodeServer>
- Created some desktop instructions that should be unveiled with the geocoding webpage very shortly
- Geocoding against the cascading geocoder will tell you which geocoder was hit for the results and end users can decide what to do with that, the acceptable level of accuracy
- “With ZIP Codes” version is good for a Gazetteer function on a web map, match rate can be deceiving
- Esri moving away from the free geocoding service option
- Application template includes pointing to a geocoding service

- Will work in the coming months to change the default to the cascading geocoder
- Will only be available for those running the template independent of ArcGIS Online
- Some of Esri's geocoders are being realigned and they will be releasing a new resource
- Intention is to leave the Esri geocoders available within the organization, because the cascading geocoder does not reach beyond Maryland
- Remove available geocoder, move to the World geocoder and will need to pay or have subscription to ArcGIS Online for batch geocoding
  - Single address geocoding still available, for no cost, using Find tool and the Geocoding toolbar

#### Floodplain Discussion

- Interested in moving floodplains to MD iMap
- Floodplain data comes from 24 counties and is always in a state of fluctuation

**Question:** Can a current copy be provided to MD iMap or can MD iMap point to a service on MES servers?

- There is a willingness to share the most up-to-date data with the community
- Suggest releasing information that is preliminary as a GIS layer about 6 months before it is effective
- This layer will allow for querying
- Viewing the maps must still be accessible, since the maps must be used for permitting
- Released as preliminary data, through modeling, 12 – 18 months before effective map
- First 12 months comments are coming in to suggest better modeling and requests for changes
- While this is going on, the preliminary data is designated as “for informational purposes only”
- Legal documents or last effective digital FIRM are most up-to-date and accurate
- Last 6 months, still preliminary, but appeals are closed
- At this point the data can be released on the website as what the floodplain is going to be in 6 months
- Suggest two web services: preliminary data and currently effective
- Only two counties with bad digital data: Washington and Allegany Counties
  - Maps were released, but the LiDAR data was bad LiDAR, had to start over
- Once reach 6 month stage can be made in a digital version for download, but not final effective maps
  - Could make web services viewable only and not downloadable

**Question:** What on floodplain outreach site should be out there?

- If best thing is paper map, that should be available, if preliminary is available, that should be made available along with the paper maps
- Revamping the floodplain site now
  - MDE to meet with MES to assess need of MD iMap, where MDE is going and how to fulfill all requests

**Question:** Can we point to floodplains on MES servers now?

- Labeling and performance are in question



- Need to review what is at MES and determine if DoIT could host the services better based on performance
- Want to make sure MD iMap can point to web services even those coming from other servers
- Try to go for legally effective map, best available map and figure out where it will be hosted

### LiDAR Hosting

- MDE, with ESRGC, has uploaded lots of County LiDAR data for Maryland, which is available
- Putting in DoIT money to:
  - Update system to version 10.1
  - Pay for new mosaics
  - Add export image capabilities
  - Add query, identify and download LiDAR data capabilities
  - Create derived, pre-rendered web service products
    - Color-stretched visualization
    - Slope
    - Aspect
    - Hillshade
  - Integrate more with the MD iMap system and Portal overall
- Supports REST and OGC compatible services
- Create webpage which will be part of MD iMap portal, some content already out there
  - Additional content will be added, including links, documents, user guides, etc.
- Anticipate working with Agencies on the categories for the derived products
  - If there are regulatory requirements for these derived products (i.e. MDE might need to id areas with less than 2% slope), these categories will be made available within the data
  - Email Barney Krucoff with category considerations
- ESRGC will be doing outreach once the website is in place
- Provide statewide service, with coordinates, which will provide an elevation back to the user
  - Useful for floodplain determinations, statewide, otherwise county-by-county project
- Talked about breakdown by watersheds, could be cut up in advance
  - Anticipate this adding more complications than can be accommodated with existing data
  - Crossing County boundaries mixes collections and metadata will get more complex
- DoIT to also pay for some hosting
- ESRGC will have 30 days to get newly received LIDAR on the website and will be responsible for keeping the LiDAR data available, not going down for extended periods of time
- A lot of this will start to become available over the summer and anticipated complete by the end of the year

**Question:** What watershed boundaries would be used?

- HUC 8, source is USDA

### Application Subcommittee Updates

#### MD iMap Application Template Update

- Template code on github website

- Do **not** download as .zip will exclude libraries, use clone option instead
- Application also available, as a template, on AGOL for Maryland organizational account
- No issues if you choose to share it with everyone, but sharing with groups you might have a SSL issue
  - Implement https through IE8, accept and move on
  - Trying to obtain SSL certificates for servers and will update as soon as possible
  - Contact Jason Keppler for assistance with resolving this issue
- Modification being worked on to change the dropdown of basemaps, available outside of AGOL, to include those for Maryland specifically
  - Working with Jim Somerville to implement this change
- Removed State Plane basemaps because of projection conflicts
- Working on adding cascading geocoding service to the template, updates to come
- Tentative agreement reached, with MES, to provide developer for 1 year to continue to develop the template
- Still in the process, but want to keep improving this resource
- Need to get a cost assessment of corporate licensing level of Microsoft Bing key to maintain availability of BING maps for template and AGOL

**Question:** Has anyone made modifications to the template and are these modifications available?

- Want to add zoom to feature
- No one has posted back up widgets or modules to the template
- MES working with MDE to add zoom to feature function
- Want to use the template to support editable web map layers, edit function
  - Want to meet with Brad Wolters and MES about adding this function
  - Template based off of basic viewer from Esri which has editing option
  - Might be resolved by turning this capability back on

#### Server Object Extension

- Developing server object extension, plug-in for downloading of file .gdb and shapefiles, with CGIS
- Anticipate implementing this extension in the next day or two, updates to come
- This will be accessible through the REST endpoint for Version 10.1 of MD iMap

#### Outreach Subcommittee Updates

##### Portal Changes

- Portal was successfully re-launched on the DoIT servers on May 1, 2013
- New website utilizes SharePoint and can be updated more easily and more regularly than before
- Many changes are anticipated in the foreseeable future
- Updates will be provided and comments are welcome for recommended changes, issues or errors

#### IP Address Change for Central License Manager

- Secondary license manager IP address is being changed from 10.80.252.210 to 10.10.9.8
- This will impact the gislm2.doit.net.md.gov license manager only

- Firewall changes will need to be made to accommodate outbound and inbound communication with the new IP address
- For those with the license manager set to gislm2.doit.net.md.gov, you should notice no change
- Cut over date is May 31, 2013
- CIOs have been notified of this change via email
- For questions, contact Ken Miller ([ken.miller@maryland.gov](mailto:ken.miller@maryland.gov)) or Adam Smith ([adam.smith@maryland.gov](mailto:adam.smith@maryland.gov))

### **Additional Business**

Esri Registrations for UC (July 8 – 12, 2013, San Diego, CA)

- We have 40 complimentary registrations for UC conference
- Contact Julia Fischer to obtain information about registering using a complimentary pass

### **Employee Announcement**

- Matt Folley moving from MDP to DoIT to work with health and human services agencies
- Starts May 15, 2013 with DoIT

### **Action Item:** Add geocoder change information, from Esri, onto MD iMap Portal

- Want to make Maryland geocoder easy to use
- D.C. government has a desktop toolbar which allows for some internal functionality
- A toolbar would make it clear that the free Maryland resources are being used and are available
  - Might want to consider developing a desktop toolbar in the future
- Esri Webinar on Friday from 10 – 11a.m.
  - Esri Maps for Microsoft Version 2.0
  - Contact Jason Keppler to forward invite email, free webinar
- Go through the current list of MD iMap services and archive some of these to further drop the count
- Matt Power moving from Deputy Secretary at MDP to StateStat Director
  - Good opportunity to revisit getting MDP properly funded for parcel data

### **Action Item Review**

#### **APPLICATION SUBCOMMITTEE ACTION ITEMS**

##### **USDOT Cloud Utilization Survey**

- Anticipate an update from Kaushik Dutta and/or Michel Sheffer, in June

##### **Geocortex**

- Demo has been shown to a couple of agencies
- DHCD contemplating a trial to test functionality
- Has potential, but have not pulled the trigger because compatibility with ArcGIS Online is limited and had already started down the road of the template
- Template may or may not have been the right decision, but has now been reasonably invested in

- In the short-term, obtaining Geocortex could confuse the issue of trying to get people using the template
- However, do not want to discourage others from taking advantage of this resource and sharing their experiences with the rest of the group
- Received good feedback from other States
- Might follow up with MSGIC concerning setting up a demo

#### How to consume Socrata services in MD iMap

- Pull from Socrata to MD iMap has been demoed and creates services using a Python script
- Going from MD iMap to Socrata, Server Object Extension should take care of this need

#### Google Map Engine

- Still considering pursuing purchase of Arc2Earth
- Learned that you can name software packages not on COTS list
- DoIT has enough funding to pursue for this FY

#### Application Submission Procedures

- Redirect efforts to update the procedures with use of the template, which includes directions for deployment

### DATA & RESOURCES SUBCOMMITTEE ACTION ITEMS

#### WFS-Enabled OSPREY Services

- Plan to pursue all services which go onto the Version 10.1 infrastructure be WFS-enabled, as well as, downloadable via the Server Object Extension detailed in the Application Subcommittee Updates section
- OSPREY Public should just contain MD iMap services
- Any secure service should be on OSPREY secured servers and consumed on OSPREY Secure only
- Power Outage service hosted by MEMA on MD iMap and do not need to be labeled OSPREY specifically

#### Feedback/Requests concerning MD iMap

“Statewide tax map service being developed by MDP will be made available on MD iMap in future”

- MDP has developed a seamless map service for tax maps for internal use
- MDP is also working with CGIS on providing source materials and creating a service for access through the SDAT real property website
- At this time it is NOT our intention to make this service available on MD iMap
- CGIS is developing an application that will access the tax maps from the SDAT Real Property site.

“PFA map service now includes a field ‘State Eligible’ w/ Yes or No”

- This is part of MDP’s map service for PFAs

“Look to obtain most recent statewide DEM from Salisbury and discuss effort/timeline for generating hillshade and getting posted”

- ESRGC has developed an image service for LiDAR so this is no longer needed
- They are also looking to develop a hillshade serve based on a new scope of work

“Add Plat # to parcel”; “Maybe add address”

- Address information has been provided for the cascading geocoder
- MDP may add Map/Plat/Parcel number at a later date

“Add PFA in/out: resistance to this update”

- MDP is not going to do this at this time
- Once all the PFA boundaries are realigned to parcel polygons, this may be reconsidered

“Check for hillshade, which can be added as map service @ MDP”; “Add Hillshade Service: Inquire at DNR if they have a hillshade available”

- See above